

Figure 1

1. *Journal of the American Medical Association*, 1997; 277: 1033-1037.

1. *Chlorophyll a* (Chl *a*)

Agents for the purchase and sale of

REAL ESTATE, OIL LANDS,

WELLS, LEASES, &c.

Also agents for the

TITAN IRON WORKS,
(of Jersey City.)
PORTABLE ENGINES

Which are **SECOND TO NONE** now in use in the **OIL REGIONS.**

They are connected with the **ROCKET** either by a bed plate, or by saddles, as may be desired. There are no extras, but included are, **PUMP, HEATER, GOVERNOR, SAFETY VALVE, STEAM GAUGE, SUCTION PIPE, SMOKE PIPE, &c.,** The Piston Rod is of **STEEL**, the Crank of Wrought Iron and extra heavy.

Every bolt is turned, and hole reamed out. The Pump is attached to the Cylinder, and is so arranged that by a simple adjustment it can be prevented from freezing.

The Governor is Pickering's Patent, which gives great uniformity of motion. The Boilers are made of the best PENNSYLVANIA CHARCOAL IRON—SHELL 1-1/2 inch, and Fire Box 5-16 inch thick and are subjected to a cold water pressure of 130 pounds before leaving the Works. They are adapted for burning either coal or wood, dry or green. The water passes from the HEATER into the BOTTLER at the heating point. In estimating CAPACITY, 14 FEET of heating surface per horse power is allowed.

Saw Mill, which can be put in running order at a small expense. On this farm there is 10,000,000 feet of PINE and HEM-LOCK lumber; so estimated by competent judges.

ALSO, FOR SALE,

Thirty Acres on PINE-HOLDS CREEK, about 1/2 mile above U. S. Well. A splendid piece of sixteen wells going down on the face adjoining; wells also down twenty rods above this farm, with every indication of there being flowing wells.

FOR SALE.

SIXTY-THREE and one-half acres, in

ALSO, FOR SALE,

stead Well, now flowing five hundred barrels per day.

ALSO

Several interests in wells going down near the United States well on Pithole, and four producing wells in the vicinity of Titusville. For particulars inquire at the office.

several **LEASES** on all the prominent stream. To be given on easy terms.

2 **SPLENDID** Building lots, on Franklin street, for sale on easy terms.

A Fine story and a half dwelling house situated on Water street, will be sold cheap if applied for immediately.

All those who may have great estate or Good Oil property to dispose of, will find it to their advantage to call at this office and leave description of the same, as we have great facilities for selling.

NO **PROPERTY** will be offered for sale unless known to be of the best description. Maps and Plans of properties offered for sale, made expressly for this office; **ALSO** **MAPS** of the **ENTIRE OIL REGION**, always open for inspection.

Call or address
GEO. B. REED & CO.
OFFICE : Room 3,
Fletcher Block.

FIRE! FIRE! FIRE!
NEW ENGLAND INSURANCE COMPANY, HARTFORD
Capital \$500,000
TRADEMAN'S INSURANCE COMPANY, N.Y.
Capital \$500,000
LENOX INSURANCE COMPANY, N.Y.
Capital \$500,000
GIRARD INSURANCE COMPANY, PHILADELPHIA
Capital \$500,000
NORWICH INSURANCE COMPANY, CONNECTICUT
Capital \$500,000
All kinds of property insured in the United States and other countries at the lowest rates.
Franklin St. at opposite Bosh House

LIFE INSURANCE.
EQUITABLE LIFE INSURANCE SOCIETY, N.Y.
Capital and Assets over \$5,000,000
1011 Broadway, N.Y.
J. H. BATES, Agent Franklin St.

HALE & SILLIMAN,
Wholesale and Retail Dealers in
Lumber, Anthracite, Bituminous, and Blossburg Coals.
They have secured a large quantity of the best quality of coal from the anthracite region of the State, and are prepared to supply the market at the lowest prices.
Office and Yard at a short distance from the Depot on Elm Street, near the Railroad.
J. H. BATES, Agent Franklin St.

OIL EXCHANGE
AND
DINING HALL,
Diamond Street, opposite Crittenden Hotel.
Wholesale and Retail Dealers in
The table is furnished with all the delicacies of the season, and the bar with the choice of liquors. The dining hall is elegantly furnished, and the service is of the highest quality.
J. H. BATES, Agent Franklin St.

PRIVATE BARBER SHOP
E. B. MORRIS,
1011 Broadway, N.Y.
A. J. HALL, also from all the most famous barbers of the world, and the best of the profession, and the bar with the choice of liquors. The dining hall is elegantly furnished, and the service is of the highest quality.
J. H. BATES, Agent Franklin St.

NEW MACHINE SHOP
M. J. MARION, also from all the most famous barbers of the world, and the best of the profession, and the bar with the choice of liquors. The dining hall is elegantly furnished, and the service is of the highest quality.
J. H. BATES, Agent Franklin St.

BRASS FOUNDRY.
J. H. BATES, Agent Franklin St.

BLACKSMITHING
J. H. BATES, Agent Franklin St.

READ THIS.
James Ross & Co.,
1011 Broadway, N.Y.

FOR SALE.
A. J. HALL, also from all the most famous barbers of the world, and the best of the profession, and the bar with the choice of liquors. The dining hall is elegantly furnished, and the service is of the highest quality.
J. H. BATES, Agent Franklin St.

REAL ESTATE.
A. J. HALL, also from all the most famous barbers of the world, and the best of the profession, and the bar with the choice of liquors. The dining hall is elegantly furnished, and the service is of the highest quality.
J. H. BATES, Agent Franklin St.

H. T. HUNT,
Mill Wright
and Manufacturer of
all kinds of Pump, Digging done to order, and on short notice.
Shop on Water Street, between Franklin and Market Streets.
THURSDAY, PA.

NEW MUSIC STORE.
J. H. BATES, Agent Franklin St.

Lockart & Hurd,
Wholesale and Retail Dealers in
Stationery,
A. L. B. U. M. S.

Lockart & Hurd,
Wholesale and Retail Dealers in
Stationery,
A. L. B. U. M. S.

Lockart & Hurd,
Wholesale and Retail Dealers in
Stationery,
A. L. B. U. M. S.

Lockart & Hurd,
Wholesale and Retail Dealers in
Stationery,
A. L. B. U. M. S.

Lockart & Hurd,
Wholesale and Retail Dealers in
Stationery,
A. L. B. U. M. S.

J. T. BRIGGS & CO.,
WOOD AND MANN



Manufactured and sold in the United States and other countries at the lowest rates.
Franklin St. at opposite Bosh House

PORTABLE STEAM ENGINES.

Gravely increased facilities for manufacturing, enable us to offer the most complete and reliable PORTABLE STEAM ENGINES at the lowest prices.

TABLE OF DIMENSIONS
OF PORTABLE STEAM ENGINES & BOILERS
MANUFACTURED BY WOOD & MANN, PITTSBURGH, PA.

Model	Power	Length	Width	Height	Weight
1	5	21	27	27	15
2	10	28	32	32	25
3	15	35	38	38	35
4	20	42	45	45	45
5	25	48	52	52	55
6	30	55	60	60	65
7	35	62	68	68	75
8	40	70	75	75	85
9	45	78	82	82	95
10	50	85	90	90	105

Gravely increased facilities for manufacturing, enable us to offer the most complete and reliable PORTABLE STEAM ENGINES at the lowest prices.

Gravely increased facilities for manufacturing, enable us to offer the most complete and reliable PORTABLE STEAM ENGINES at the lowest prices.

Gravely increased facilities for manufacturing, enable us to offer the most complete and reliable PORTABLE STEAM ENGINES at the lowest prices.

Gravely increased facilities for manufacturing, enable us to offer the most complete and reliable PORTABLE STEAM ENGINES at the lowest prices.

Gravely increased facilities for manufacturing, enable us to offer the most complete and reliable PORTABLE STEAM ENGINES at the lowest prices.

Gravely increased facilities for manufacturing, enable us to offer the most complete and reliable PORTABLE STEAM ENGINES at the lowest prices.

Gravely increased facilities for manufacturing, enable us to offer the most complete and reliable PORTABLE STEAM ENGINES at the lowest prices.

Gravely increased facilities for manufacturing, enable us to offer the most complete and reliable PORTABLE STEAM ENGINES at the lowest prices.

Gravely increased facilities for manufacturing, enable us to offer the most complete and reliable PORTABLE STEAM ENGINES at the lowest prices.

Gravely increased facilities for manufacturing, enable us to offer the most complete and reliable PORTABLE STEAM ENGINES at the lowest prices.

Gravely increased facilities for manufacturing, enable us to offer the most complete and reliable PORTABLE STEAM ENGINES at the lowest prices.

Gravely increased facilities for manufacturing, enable us to offer the most complete and reliable PORTABLE STEAM ENGINES at the lowest prices.

FURNITURE! FURNITURE!
J. H. BATES, Agent Franklin St.

OLD ESTABLISHED HOSPITAL.
J. H. BATES, Agent Franklin St.

WASHINGTON IRON WORKS.
J. H. BATES, Agent Franklin St.

PORTABLE ENGINES.
J. H. BATES, Agent Franklin St.

OUR WORK IS ALL WARRANTED.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPH GALLERY.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

WASHINGTON IRON WORKS.
J. H. BATES, Agent Franklin St.

PORTABLE ENGINES.
J. H. BATES, Agent Franklin St.

OUR WORK IS ALL WARRANTED.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPH GALLERY.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

WASHINGTON IRON WORKS.
J. H. BATES, Agent Franklin St.

PORTABLE ENGINES.
J. H. BATES, Agent Franklin St.

OUR WORK IS ALL WARRANTED.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPH GALLERY.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

PHOTOGRAPHS.
J. H. BATES, Agent Franklin St.

